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- Czechoslovakian specialist from the metal refining plant, TATIM*, and the Russian engineer, fnu Davidov.
- 2. The function of this new plant is to provide steel with a smooth, noncorrosive plating of aluminum alloy. The color of this plating dispenses with the need for camouflage paint and in the case of sea-going craft, it has the additional advantage of keeping them operational three times as long before returning them to dry dock for cleaning.
- 3. Plywood delivered from the CSR is also being plated with aluminum alloy. This so-called "armored wood" (Panzer-Holz), which is springy and even pliable, is produced in dimensions of 600 x 1200 mm and 800 x 1600 mm and has a smooth surface. It is delivered in scaled freight cars to Brest Litovsk as top priority. Only Polish rolling stock is used for this purpose. In Brest Litovsk consignments are unloaded for transmission to the USLR, where it is used principally for aircraft construction and ship-building.
- 4. In the Steel and Rolling Mills, Grandenburg/Mavel, arrangements are now made for the mass production of steel and wood plated with aluminum allow.
- 5. Successful tests were concluded by the above-mentioned specialists at the ond of March 1951. During experiments the electric glow furnaces (Glubsfen) for aluminum and its alloys proved ina equate as the process calls for a required constant temperature which could not be maintained. In addition, the output of the plants own power station was already fully absorbed.
- 6. On the advice of the supervising experts it was decided to dispense with the electric furnaces by replacing gas-heated ones. As the new gas-heated furnaces could only operate on high-grade gas, a gas generating plant was ordered from the firm of Julius Pintsch, Berlin and Fuerstenwalde/Spree which would answer the requirements. At the beginning of April 1951 this firm installed an automatic (one-man) operating gas plant with a daily capacity of 5,000 cu.m. The necessary coal sup lies for the mas plant came exclusively 50X1-HUM

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from the Waldenburg area in Silcsia. A gas specialist by the name of Bruns, with 30 years experience, is responsible for the entire gas plant and its output of absolute uniform quality and pressure. He is provided with a small laboratory with all necessary pressure and testing apparatus.

- 7. Plating is done with a gas-heated roller (War walze) with a temperature between 450 and 520 degrees** under high pressure, (research to use higher temperature is still in progress) resulting in an inseparable aluminum plating.
- 8. Through special contact material, chemical and electrical properties are obtained as desired. Throughout, the plated material retains the mechanical consistency of the basic material while gaining the special properties of the plating.
- 9. Plating is done on one or both sides with pure aluminum or with aluminum alloys depending on the subsequent use of the material. In almost all cases aluminum with copper content is used in the contact material but its exact composition is a secret.

#	Comment: The Tatra National Corporation in Czechoslovakia does not have a metal refining plant as such. Subject may come from any one of the TATRA subsidiaries or from the metal refining plant of a different combination.	50X1-HUM
4535	Comment: Temperature unit not specified.	50X1-HUM

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